Lukas Ebner

List of Publications by Year
in descending order

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66 papers	2,776 citations	361045 20 h-index	182168 51 g-index
70 all docs	70 docs citations	70 times ranked	4262 citing authors

#	Article	IF	Citations
1	Lung Pattern Classification for Interstitial Lung Diseases Using a Deep Convolutional Neural Network. IEEE Transactions on Medical Imaging, 2016, 35, 1207-1216.	5.4	1,008
2	Pulmonary function and radiological features 4 months after COVID-19: first results from the national prospective observational Swiss COVID-19 lung study. European Respiratory Journal, 2021, 57, 2003690.	3.1	291
3	Multisource Transfer Learning With Convolutional Neural Networks for Lung Pattern Analysis. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 76-84.	3.9	222
4	Using hyperpolarized ¹²⁹Xe MRI to quantify regional gas transfer in idiopathic pulmonary fibrosis. Thorax, 2018, 73, 21-28.	2.7	110
5	Semantic Segmentation of Pathological Lung Tissue With Dilated Fully Convolutional Networks. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 714-722.	3.9	109
6	Computer-Aided Diagnosis of Pulmonary Fibrosis Using Deep Learning and CT Images. Investigative Radiology, 2019, 54, 627-632.	3.5	104
7	State-of-the-art imaging of liver fibrosis and cirrhosis: A comprehensive review of current applications and future perspectives. European Journal of Radiology Open, 2015, 2, 90-100.	0.7	74
8	Performance of ultralow-dose CT with iterative reconstruction in lung cancer screening: limiting radiation exposure to the equivalent of conventional chest X-ray imaging. European Radiology, 2016, 26, 3643-3652.	2.3	71
9	Characterization of Incidental Renal Mass With Dual-Energy CT: Diagnostic Accuracy of Effective Atomic Number Maps for Discriminating Nonenhancing Cysts From Enhancing Masses. American Journal of Roentgenology, 2017, 209, W221-W230.	1.0	56
10	The role of hyperpolarized 129xenon in MR imaging of pulmonary function. European Journal of Radiology, 2017, 86, 343-352.	1.2	53
11	Hyperpolarized 129Xenon Magnetic Resonance Imaging to Quantify Regional Ventilation Differences in Mild to Moderate Asthma. Investigative Radiology, 2017, 52, 120-127.	3.5	51
12	Imaging in corona virus disease 2019 (COVID-19)â€"A Scoping review. European Journal of Radiology Open, 2020, 7, 100237.	0.7	45
13	Postmortem Whole-Body MRI in Traumatic Causes of Death. American Journal of Roentgenology, 2012, 199, 1186-1192.	1.0	39
14	CT dose and image quality in the last three scanner generations. World Journal of Radiology, 2013, 5, 421.	0.5	37
15	Comparison of Dual-Energy Subtraction and Electronic Bone Suppression Combined With Computer-Aided Detection on Chest Radiographs: Effect on Human Observers' Performance in Nodule Detection. American Journal of Roentgenology, 2013, 200, 1006-1013.	1.0	33
16	Meta-analysis of the radiological and clinical features of Usual Interstitial Pneumonia (UIP) and Nonspecific Interstitial Pneumonia (NSIP). PLoS ONE, 2020, 15, e0226084.	1.1	31
17	A comprehensive review of imaging findings in COVID-19 -Âstatus in early 2021. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 2500-2524.	3.3	31
18	Lung Nodule Detection by Microdose CT Versus Chest Radiography (Standard and Dual-Energy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.0	30

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19	A Deep-Learning Diagnostic Support System for the Detection of COVID-19 Using Chest Radiographs. Investigative Radiology, 2021, 56, 348-356.	3.5	26
20	Clinical Course, Radiological Manifestations, and Outcome of Pneumocystis jirovecii Pneumonia in HIV Patients and Renal Transplant Recipients. PLoS ONE, 2016, 11, e0164320.	1.1	23
21	Maximum-Intensity-Projection and Computer-Aided-Detection Algorithms as Stand-Alone Reader Devices in Lung Cancer Screening Using Different Dose Levels and Reconstruction Kernels. American Journal of Roentgenology, 2016, 207, 282-288.	1.0	22
22	Optimal Dose Levels in Screening Chest CT for Unimpaired Detection and Volumetry of Lung Nodules, with and without Computer Assisted Detection at Minimal Patient Radiation. PLoS ONE, 2013, 8, e82919.	1.1	21
23	Informative sample generation using class aware generative adversarial networks for classification of chest Xrays. Computer Vision and Image Understanding, 2019, 184, 57-65.	3.0	20
24	Imaging in the aftermath of COVID-19: what to expect. European Radiology, 2021, 31, 4390-4392.	2.3	17
25	Liver MRI susceptibility-weighted imaging (SWI) compared to T2* mapping in the presence of steatosis and fibrosis. European Journal of Radiology, 2019, 118, 66-74.	1.2	16
26	Variations in the functional visual field for detection of lung nodules on chest computed tomography: Impact of nodule size, distance, and local lung complexity. Medical Physics, 2017, 44, 3483-3490.	1.6	15
27	Feasible Dose Reduction in Routine Chest Computed Tomography Maintaining Constant Image Quality Using the Last Three Scanner Generations: From Filtered Back Projection to Sinogram-affirmed Iterative Reconstruction and Impact of the Novel Fully Integrated Detector Design Minimizing Electronic Noise. Journal of Clinical Imaging Science, 2014, 4, 38.	0.4	15
28	Increased Expiratory Computed Tomography Density Reveals Possible Abnormalities in Radiologically Preserved Lung Parenchyma in Idiopathic Pulmonary Fibrosis. Investigative Radiology, 2018, 53, 45-51.	3.5	13
29	CT predicts liver fibrosis: Prospective evaluation of morphology- and attenuation-based quantitative scores in routine portal venous abdominal scans. PLoS ONE, 2018, 13, e0199611.	1.1	12
30	Right aortic arch and Kommerell's diverticulum associated with acute aortic dissection and pericardial tamponade. Acta Radiologica Short Reports, 2013, 2, 1-3.	0.7	11
31	Pre- and postnatal imaging of Pai syndrome with spontaneous intrauterine closure of a frontal cephalocele. Pediatric Radiology, 2015, 45, 936-940.	1.1	11
32	T1 mapping of the liver and the spleen in patients with liver fibrosisâ€"does normalization to the blood pool increase the predictive value?. European Radiology, 2021, 31, 4308-4318.	2.3	10
33	Magnetic resonance tomography of the knee joint. Skeletal Radiology, 2015, 44, 1427-1434.	1.2	9
34	Imaging features and differential diagnoses of non-neoplastic diffuse mediastinal diseases. Insights Into Imaging, 2020, 11, 111.	1.6	9
35	MRI Shows Lung Perfusion Changes after Vaping and Smoking. Radiology, 2022, 304, 195-204.	3.6	9
36	Diagnostic Performance and Additional Value of Elastosonography in Focal Breast Lesions: Statistical Correlation between Size-Dependant Strain Index Measurements, Multimodality-BI-RADS Score, and Histopathology in a Clinical Routine Setting. ISRN Radiology, 2014, 2014, 1-8.	1.2	8

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37	Retrocrural Space Involvement on Computed Tomography as a Predictor of Mortality and Disease Severity in Acute Pancreatitis. PLoS ONE, 2014, 9, e107378.	1.1	7
38	Multireader Determination of Clinically Significant Obstruction Using Hyperpolarized ¹²⁹Xeâ€“Ventilation MRI. American Journal of Roentgenology, 2019, 212, 758-765.	1.0	7
39	Performance of an AI based CAD system in solid lung nodule detection on chest phantom radiographs compared to radiology residents and fellow radiologists. Journal of Thoracic Disease, 2021, 13, 2728-2737.	0.6	7
40	Diagnostic validation of a deep learning nodule detection algorithm in low-dose chest CT: determination of optimized dose thresholds in a virtual screening scenario. European Radiology, 2022, 32, 4324-4332.	2.3	7
41	Hepatocellular Carcinoma Screening With Computed Tomography Using the Arterial Enhancement Fraction With Radiologic-Pathologic Correlation. Investigative Radiology, 2016, 51, 25-32.	3.5	6
42	Minimum perceivable size difference: how well can radiologists visually detect a change in lung nodule size from CT images?. European Radiology, 2021, 31, 1947-1955.	2.3	6
43	Radiological CT Patterns and Distribution of Invasive Pulmonary Aspergillus, Non-Aspergillus, Cryptococcus and Pneumocystis Jirovecii Mold Infections â€“ A Multicenter Study. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2021, 193, 1304-1314.	0.7	6
44	The role of radiological imaging for masses in the prevascular mediastinum in clinical practice. Journal of Thoracic Disease, 2020, 12, 7591-7597.	0.6	6
45	Correlation of gastrointestinal perforation location and amount of free air and ascites on CT imaging. Abdominal Radiology, 2021, 46, 4536-4547.	1.0	5
46	Imaging patterns of Pneumocystis jirovecii pneumonia in HIV-positive and renal transplant patients â€“ a multicentre study. Swiss Medical Weekly, 2019, 149, w20130.	0.8	5
47	T1 reduction rate with Gd-EOB-DTPA determines liver function on both 1.5ÂT and 3ÂT MRI. Scientific Reports, 2022, 12, 4716.	1.6	5
48	New radiological diagnostic criteria: impact on idiopathic pulmonary fibrosis diagnosis. European Respiratory Journal, 2019, 54, 1900905.	3.1	4
49	Correlation between fat signal ratio on T1-weighted MRI in the lower vertebral bodies and age, comparing 1.5-T and 3-T scanners. Acta Radiologica Open, 2020, 9, 205846012090151.	0.3	4
50	Liver segmental volume and attenuation ratio (LSVAR) on portal venous CT scans improves the detection of clinically significant liver fibrosis compared to liver segmental volume ratio (LSVR). Abdominal Radiology, 2021, 46, 1912-1921.	1.0	4
51	Performance of a diagnostic algorithm for fibrotic hypersensitivity pneumonitis. A caseâ€“control study. Respiratory Research, 2021, 22, 120.	1.4	4
52	Noninvasive assessment of clinically significant portal hypertension using Î”T1 of the liver and spleen and ECV of the spleen on routine Gd-EOB-DTPA liver MRI. European Journal of Radiology, 2021, 144, 109958.	1.2	4
53	Computed tomography imaging for the characterisation of drugs with radiation density measurements and HU spectroscopy. Swiss Medical Weekly, 2018, 148, w14585.	0.8	4
54	Pulmonary intimal sarcoma: a rare differential diagnosis for arterial filling defects on a chest CT. Acta Radiologica Short Reports, 2014, 3, 204798161351405.	0.7	3

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55	Thyroid atrophy and pancreatic involution after cancer Immunotherapy. RoFo Fortschritte Auf Dem Gebiet Der Rontgenstrahlen Und Der Bildgebenden Verfahren, 2020, 192, 688-690.	0.7	3
56	Vascular Abnormalities Detected with Chest CT in COVID-19: Spectrum, Association with Parenchymal Lesions, Cardiac Changes, and Correlation with Clinical Severity (COVID-CAVA Study). Diagnostics, 2021, 11, 606.	1.3	3
57	Kerley B lines in the lung apex â€“ a distinct CT sign for pulmonary congestion. Swiss Medical Weekly, 2019, 149, w20119.	0.8	3
58	Acute Pulmonary Embolism in COVID-19: A Potential Connection between Venous Congestion and Thrombus Distribution. Biomedicines, 2022, 10, 1300.	1.4	3
59	Interchangeability between real and three-dimensional simulated lung tumors in computed tomography: an interalgorithm volumetry study. Journal of Medical Imaging, 2018, 5, 1.	0.8	2
60	Avoiding the Intercostal Arteries in Percutaneous Thoracic Interventions. Journal of Vascular and Interventional Radiology, 2022, 33, 416-419.e2.	0.2	2
61	Reply to â€œComment on â€˜Maximum-Intensity-Projection and Computer-Aided-Detection Algorithms as Stand-Alone Reader Devices in Lung Cancer Screening Using Different Dose Levels and Reconstruction Kernels'â€. American Journal of Roentgenology, 2017, 208, W133-W133.	1.0	1
62	Distinct Clinical and Laboratory Patterns of Pneumocystis jirovecii Pneumonia in Renal Transplant Recipients. Journal of Fungi (Basel, Switzerland), 2021, 7, 1072.	1.5	1
63	Bone subtraction radiography in adult patients with cystic fibrosis. Acta Radiologica, 2017, 58, 929-936.	0.5	0
64	INFLUENCE OF SOFT VS HARD COMPUTED TOMOGRAPHY RECONSTRUCTION KERNEL ON RADIOLOGICAL PATTERN RECOGNITION. Chest, 2020, 157, A224.	0.4	0
65	Adult form of Langerhans cell histiocytosis with pulmonary and hepatic involvement mimicking malignancy in a patient with chronic hepatitis C infection. Radiology Case Reports, 2021, 16, 327-333.	0.2	0
66	Influence of background lung characteristics on nodule detection with computed tomography. Journal of Medical Imaging, 2020, 7, 1.	0.8	0